

### Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1      Claim 1 (currently amended): A keep-warm system to  
2      provide freeze protection for a fuel cell power plant  
3      (10),  
4      comprising:  
5          a. a fuel cell stack assembly (CSA) (12 )  
6          including an anode (16 ), a cathode (18 ), an  
7          electrolyte (14 ), and a cooler (20 );  
8          b. fuel supply means (25 ) for providing a supply  
9          of fuel, at least some of the fuel being supplied as  
10        reactant to the anode (16 );  
11        c. a source of oxidant reactant (22 ) operatively  
12        supplied to the cathode (18 );  
13        d. a water management system (30, 28 )  
14        operatively connected to the cooler (20 ) of the CSA  
15        (12 );  
16        e. thermal insulating means (64 ) enclosing at  
17        least one of the CSA (12 ) and the water management  
18        system (30, 28 ) for providing thermal insulation  
19        thereof; and  
20        f. catalytic fuel burner means (66 )  
21        operatively connected to the fuel supply means (25 )  
22        and to the source of oxidant reactant (22) for  
23        catalytically reacting the fuel and oxidant and  
24        providing a source of heat, the burner means (66 )  
25        being disposed and operative to supply heated gas into  
26        the thermal insulating enclosure means (64), and to the  
27        at least one of the CSA (12 ) and the water management  
28        system (30, 28 ) in the thermal insulating enclosure

29 means (64 ), thereby to prevent freezing of water in  
30 freeze-sensitive parts of the fuel cell power plant.

1 Claim 2 (original): The keep-warm system of claim 1  
2 wherein the catalytic burner means (66) includes a  
3 catalytic surface (72) for combustively reacting the  
4 fuel in the presence of oxidant in a flameless manner  
5 to release heat only in a thermal range less than about  
6 1000<sup>0</sup> F.

1 Claim 3. (original): The keep-warm system of claim 2  
2 wherein the heat released by catalytic combustion at  
3 the catalytic burner means (66) is in the thermal range  
4 of about 200<sup>0</sup>-700<sup>0</sup> F.

1 Claim 4. (original): The keep-warm system of claim 2  
2 wherein the source of oxidant reactant (22) is ambient  
3 air, the air being supplied to the catalytic burner  
4 means (66) and mixed with fuel from the fuel supply  
5 means (25) for combustively reacting the mixture in the  
6 presence of the catalytic surface (72) to release heat.

1 Claim 5. (original): The keep-warm system of claim 1  
2 wherein the fuel supply means (25) comprises a  
3 container of hydrogen stored under pressure.

1 Claim 6. (original): The keep-warm system of claim 1  
2 wherein both the CSA (12) and the water management  
3 system (28, 30) are substantially enclosed by the  
4 thermal insulating means (64).

1 Claim 7. (original): The keep-warm system of claim 4  
2 wherein the electrolyte (14) of the CSA (12) is a  
3 proton exchange membrane (PEM), the fuel from the fuel

4 supply means (25) is hydrogen, and the heat released by  
5 catalytic combustion at the catalytic burner means (66)  
6 is in the thermal range of about 200° - 700° F.

1 Claim 8. (currently amended): In a fuel cell power  
2 plant (10) having a fuel cell stack assembly (CSA) (12)  
3 including an anode (16), a cathode (18), and an  
4 electrolyte (14), ~~and a cooler (20)~~, a fuel supply (25)  
5 for providing fuel to at least the anode (16), a source  
6 of oxidant reactant (22) for supplying at least the  
7 cathode (18), and a water management system (30, 28)  
8 operatively connected to the ~~cooler (20)~~ of the CSA  
9 (12), the method of preventing freezing of water in  
10 freeze-sensitive parts of the fuel cell power plant  
11 (10) during shutdown, comprising the steps of:

12 g. selectively flowing (62, 63, 69, 67) fuel (25)  
13 and oxidant (22) to a catalytic fuel burner (66) during  
14 shutdown for catalytic combustion to provide heated  
15 gas;

16 h. convectively flowing the heated gas into heat  
17 transfer relation with the freeze-sensitive parts of  
18 the fuel cell power plant (10) to provide heat thereto;  
19 and

20 i. thermally insulating the freeze-sensitive  
21 parts of the fuel cell power plant (10) including the  
22 heated gas flowing in heat transfer relation therewith.

1 Claim 9. (new): The method of claim 8 wherein the step  
2 of selectively flowing fuel and oxidant to a catalytic  
3 fuel burner provides heated gas in a thermal range of  
4 about 200° - 700° F.

1 Claim 10. (new): The method of claim 8 wherein the step  
2 of thermally insulating the freeze-sensitive parts of

3 the fuel cell power plant (10) comprises thermally  
4 insulating both the CSA (12) and the water management  
5 system (28, 30).